

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 07-285809

(43) Date of publication of application : 31.10.1995

(51) Int.CI. A01N 33/12

(21) Application number : 06-257022 (71) Applicant : BIO JISUTETSUKU:KK  
BIO MEDEITETSUKU:KK

(22) Date of filing : 21.10.1994 (72) Inventor : KUWABARA KATSUHIKO  
FURIAN BOBADEIIJIYA  
PAREDESU

(30) Priority

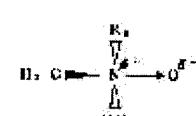
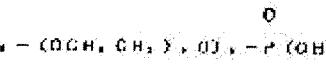
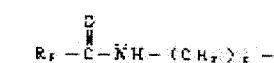
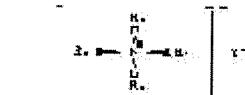
Priority number : 06 46565 Priority date : 22.02.1994 Priority country : JP

## (54) ANTIBACTERIAL AGENT CONTAINING QUATERNARY AMMONIUM SALT

### (57) Abstract:

PURPOSE: To obtain an antibacterial agent highly potent in germicidal/sterilizing activity, also presenting its efficacy in a short time, and long in efficacy sustaining time.

CONSTITUTION: This antibacterial agent contains several kinds of compound of formula I [R1 is a 6-18C alkyl or benzyl; R2 is H, a 1-18C alkyl, a 8-18C alkenyl or an aralkyl; R3 is a 12-22C alkyl; R4 is a 8-18C alkyl or of formula II (R5 is a 2-22C alkyl; (n) is 2 or 3); Y is an anion composed of one or three halogen atom(s)] and satisfies one or both of the following conditions: (A) the number of the molecules of the compound (where, R3 is a 16C alkyl) accounts for  $\geq 80\%$  of the total number of the molecules of the compound; and (B) the anions composed of three halogen atoms accounts for  $\geq 50\%$  of the total anions. This antibacterial agent is additionally incorporated with at least one kind among phosphoric esters of formula III



(x and y total 3; R6 is a 3-20C organic group; (p) is 1 or 2), polyethanolamines of formula IV (z is 2-10; R7 is a 2-22C alkyl) and ammonium oxides of formula V (R8 is a 4-18C alkyl).

---

## LEGAL STATUS

[Date of request for examination] 03.12.1999

[Date of sending the examiner's decision of rejection] 04.06.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office